

Notice of Allowability

Application No.

09/852,977

Examiner

Melur Ramakrishnaiah

Applicant(s)

GU, QUNSHAN

Art Unit

2614

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 1-9-2007.
2. ☒ The allowed claim(s) is/are 1-22 and 25-28.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.


Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date 2-26-2002
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____.
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.


MELUR RAMAKRISHNAIAH
PRIMARY EXAMINER

Allowable Subject Matter

1. The following is an examiner's statement of reasons for allowance: the invention discloses a method of processing video signals described herein may include providing a memory; allocating the memory between a first buffer and a second buffer, receiving a video signal that includes video data for reconstructing an image, generating image data representative of the image data from the video data, decoding control data from the video signal that specifies whether the image data is long-term data or short-term data, storing the image data in the first buffer when the image data is short-term data, and storing the image data in the second buffer when the image data is long-term data.

The prior art of record in combination or alone fails to disclose these elements of independent claims in combination with other elements. For example independent claim 1 has claim limitations such as allocating the memory between a first buffer and a second buffer, receiving a video signal that includes video data for reconstructing an image, generating image data representative of the image from the video data, decoding control data from the video signal that specifies whether the image data is a long-term data or short-term data, storing the image data in the first buffer when the image data is a short-term data, and storing the image data in the second buffer when the image data is long-term data. Independent claim 17 has claim limitations such as computer executable code for allocating a memory between a first buffer and a second buffer, computer executable code for decoding a video signal that includes video data for reconstruction of image, computer executable code for generating image data representative of image from the video data, computer executable code for decoding

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control data from the video signal that specifies whether the image data is long-term data or short-term data, computer executable code for storing image data in the first buffer when the image data is short-term data, and computer executable code for storing the image data in the second buffer when the image data is long-term data. Independent claim 18 has similar limitations as claim 1. Independent claim 19 has claim limitations such as allocating memory between a short-term buffer and a long-term buffer, storing a long-term reference image in the long term buffer and a short-time reference image in the short-term buffer, receiving a video signal that includes video data for reconstructing an image, decoding control data from the video signal that specifies a reference image for reconstructing the image, the reference image being at least one of the short-term reference image or the long-term reference image, and generating image data representative of the image from the video data and the reference image. Independent claim 20 has claim limitations such as allocating memory between a short-time buffer and a long-time buffer, storing long-time reference image in the long-term buffer and a short-reference image in the short-term buffer, receiving a video signal that includes video data for reconstructing an image, decoding first control data from the video signal that specifies a reference image for reconstructing the image, the reference image being at least one of short-term reference image or the long term reference image, generating image data representative of the image from the video data and the specified reference image, decoding second control data from the video signal that specifies a buffer for storing the image data, the specified buffer being one of a second short-term buffer or a second long-term buffer, and storing the image data in the

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specified buffer. Independent claim 21 has similar limitations of as claim 19.

Independent claim 22 has claim limitations such as a buffer allocation decoder configured to allocate the memory between a long-term buffer and a short-time buffer, a video input that receives a video signal that includes video data for reconstructing an image, a picture decoder that generates image data representative of the image from the video data, and an image storage control that decodes control data from the video signal that specifies whether the image data is long-term data or short-term data, and stores the image data in the short-term buffer when the image data is short-term data, and stores the image data in the long-term buffer when the image data is long-term data. Independent claim 25 has claim limitations such as a picture identification number assigned sequentially to a picture, a flag that indicates whether the data signal includes a number of long-term buffers value, a picture property change indicator that indicates a change of image data between short-term data, long-term data, and unused data, a number of buffers for remapping field specifying reallocation instructions, a picture buffering mode that signals a way that a current image is to be stored, the way being at least one of as a long-term image or short-term image, and a picture identification that signals a location where a current image is to be stored, the location being at least one of an index for long-term buffer or an identification number for a short-time buffer. for the above reasons independent claims 1, 17, 18-22, 25 and dependent claims 2-16, 26-28 are allowable.

2. Claims 1-22, 25-28 are allowed.

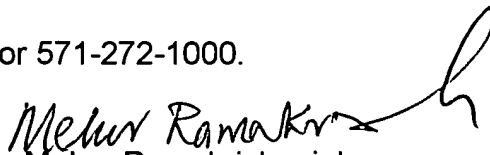
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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Melur Ramakrishnaiah whose telephone number is (571)272-8098. The examiner can normally be reached on 9 Hr schedule.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Curt Kuntz can be reached on (571) 272-7499. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.


Melur Ramakrishnaiah
Primary Examiner
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